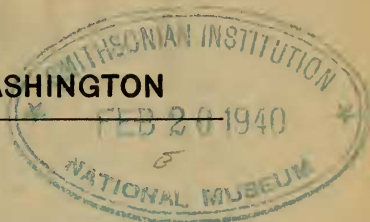


PROCEEDINGS  
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BIOLOGICAL SOCIETY OF WASHINGTON

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BUTTERFLIES FROM VIRGINIA AND THE DISTRICT  
OF COLUMBIA.

BY AUSTIN H. AND LEILA F. CLARK.

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Since the publication of our "Preliminary List of the Butterflies of Virginia" (Proc. Biol. Soc. Washington, vol. 50, pp. 87-92, June 22, 1937) Professor Ellison A. Smyth, Jr., and Mr. Carl W. Gottschalk of Salem have been so very kind as to send us records of three additional species from Roanoke and Montgomery Counties, we ourselves have taken two new to the fauna of the State, and a species recently described by Dr. William T. M. Forbes proves to be common and widely distributed throughout the region.

Furthermore, during the past year a number of records of more than usual interest have been given us by several of our friends, or have come to our notice during the course of our personal investigations.

It has seemed advisable to list the additions to the fauna of Virginia and the more interesting records in order to bring up to date the list of species known from the State and to call attention to extensions of known ranges or casual occurrences of the more localized or rarer forms.

The following six species and subspecies are herein for the first time recorded from Virginia: *Neonympha areolatus areolatus*, *Phoebis philea*, *Erynnis baptisiae*, *Hesperia attalus*, *Polites mystic*, and *Atrytone bimacula*. The addition of these six raises the total number of species and subspecies definitely known from Virginia to 139.

Two species are added to the fauna of the District of Columbia; these are: *Papilio palamedes* and *Erynnis baptisiae*. Of these the first is merely a casual or accidental visitor, and the second has heretofore been confused with *E. persius*.

To the Maryland list we add *Erynnis baptisiae*.

The records of *Calpodes ethlius* are practically all based upon larvae which we found between September 24 and October 3, during a trip to the eastern counties of Virginia. We did not find the species anywhere in the western portion of the State. In view of the great abundance of the larvae and the resultant extensive damage to cannas in the eastern coastal plain it is interesting to note that we have never seen the adult of this species in Virginia, and only twice have we seen it in Washington.

For their courtesy and generosity in giving us the records included herein we wish to express our appreciation and gratitude to Professor Ellison A. Smyth, Jr., of Salem, Va.; Professor Ivey F. Lewis, of the University of Virginia; Professor Lorande Loss Woodruff, of Yale University; Mr. Frank Morton Jones, of Wilmington, Del.; Dr. George W. Rawson, of Detroit, Mich.; Mr. Carroll M. Williams, of Richmond, Va.; Mr. Carl W. Gottschalk, of Salem, Va.; Mr. W. Herbert Wagner, of Washington, D. C.; and Mr. C. C. Walton, of Clifton Forge, Va.

*Neonympha areolatus areolatus* (Smith).

*Nansemond Co.*: about eight miles south of Suffolk, May 30, 1937. A few specimens taken here agree with typical examples from South Carolina and Georgia, though most are intermediate between *areolatus* and *septentrionalis*, usually nearer the former. Some are very close to *septentrionalis*. The latter occurs alone at Brinkley, a few miles away.

*Euphydryas phaëton* (Drury).

*Giles Co.*: Mountain Lake, Aug., 1937 (Ivey F. Lewis).

*Argynnis bellona* (Fabricius).

*Tennessee*: northeastern corner of Johnson Co., July 12, 1936.

*Argynnis myrina* (Cramer).

*Nelson Co.*: Montebello, Aug. 9, 1937.

*Argynnis diana* (Cramer).

*Nansemond Co.*: Dismal Swamp, near Suffolk, June 29, 1937 (W. H. Wagner).

*Nymphidia pumila* Boisduval and LeConte.

*Nansemond Co.*: Dismal Swamp, near Suffolk, Oct. 2, 1937. Brinkley, Sept. 26, 1937.

*Lycaena phlaeas hypophlaeas* (Boisduval).

ab. *fulliolus* Hulst.

*Fairfax Co.*: Rocky Run, May 2, 1937, one male. In this aberration the coppery red on the upper surface, and the red on the under surface of the hind wings, are replaced by light yellow with a metallic luster. Dr. Hulst's type, now in the U. S. National Museum, is a male from Clifton, New Jersey.

*Glaucopsyche lygdamus* (Doubleday).

*Montgomery Co.*: Blacksburg, April 16, 1898; April 10, 18, 1903; April 14, 1905; May 2, 1921 (Ellison A. Smyth, Jr.). *Roanoke Co.*: Salem, April 24, 1927; May 3, 1931; May 19, 1932 (Ellison A. Smyth, Jr.). *Bedford Co.*: Peaks of Otter, May 31, 1935.

*Atlides halesus* (Cramer).

*Princess Anne Co.*: Virginia Beach, Aug. 20, 1936 (W. H. Wagner). *Nansemond Co.*: Dismal Swamp, July 23, 1925 (Frank Morton Jones). Dismal Swamp, near Suffolk, Sept. 26 and Oct. 2, 1937.

*Strymon titus mopsus* (Hübner).

*Fairfax Co.*: Rocky Run, June 30, July 7, 1935. *Fauquier Co.*: Catlett, June 26, 1937. *Henrico Co.*: Richmond, June 21, 1933 (C. M. Williams).

*Strymon m-album* (Boisduval and LeConte).

*Nansemond Co.*: Dismal Swamp, near Suffolk, June 26, 1937 (G. W. Rawson and W. H. Wagner). Same locality, Oct. 2, 1937. Suffolk, Sept. 24, 1937. Whaleyville, Sept. 24, 1937.

*Strymon edwardsii* (Saunders).

*Augusta Co.*: Sherando, July 4, 1937.

*Strymon cecrops* (Fabricius).

ab. *gottschalki*, nov.

Mr. Carl W. Gottschalk has been so very kind as to present to the U. S. National Museum an interesting aberration of *Strymon cecrops* that he captured during the past summer. This aberration, previously undescribed, corresponds to ab. *fulliolus* Hulst of *Lycaena phlaeas hypophlaeas*.

*Description*.—Above, paler and more brownish than usual, perhaps due to fading, with sparse blue scaling at base of primaries and on inner half of secondaries. *Beneath*, pale, drab, with all the red replaced by maize yellow having a metallic lustre.

*Type specimen*.—A female, somewhat worn, from Scout Troop 54 Cabin, Fort Lewis Mountain, Roanoke County, Virginia, collected by Carl W. Gottschalk on August 11, 1937 (Cat. No. 52256, U. S. National Museum). A second very worn specimen was captured at the same place and time.

*Incisalia henrici* (Grote and Robinson).

*Westmoreland Co.*: Glebe, May 9, 1937 (W. H. Wagner). *Fairfax Co.*: Rocky Run, May 2, 9, 1937.

*Ascia monuste* (Linné).

*Accomac Co.*: Chincoteague Island, at flowers of a privet hedge, July 28, 1928; three specimens, one of which is a representative of the dark form *phileta* Fabricius (Frank Morton Jones).

*Phoebis philea* (Linné).

*Roanoke Co.*: Salem, Oct. 15, 1928 (Ellison A. Smyth, Jr.).

*Colias philodice eurytheme* (Boisduval).

In previous years it had been noticed in Virginia that the males of this form, in contrast to those of typical *philodice*, were not attracted to mud. A few years ago when both forms were common the males of typical *philodice* in late summer might be seen individually or in troops of various sizes on every suitable muddy spot, but the males of *eurytheme* remained always in the fields.

During the past summer, however, the males of *eurytheme* have been noticed singly or in groups on mud in several different places in western Virginia. On August 14, 1937, near Moscow, Augusta County, about 35 males of *eurytheme* were seen in a compact group on mud in a road together with three males of *philodice* and a few males of *Terias lisa*, these last at some distance from the others.

*Terias jucunda* (Boisduval and LeConte).

*Roanoke Co.*: Salem (Ellison A. Smyth, Jr.). Salem, 1935, two males; spring of 1937, one male (Carl W. Gottschalk).

*Papilio polyxenes asterius* Cramer.

The very considerable number of fresh individuals of both sexes found in Norfolk, Nansemond, and Isle of Wight Counties, Virginia, in late September and early October indicates that in this region this species has three broods.

*Papilio crespontes* Cramer.

*Giles Co.*: Mountain Lake, Aug. 1937 (Ivey F. Lewis).

*Papilio palamedes* Drury.

*Northampton Co.*: Mr. Frank Morton Jones writes us that he has located a colony of this species in a low swampy woodland on the west side of Sea Side Road—the first woodland south of Townsend—beginning where the road to Magotha diverges toward the east. Along the stream or ditch extending westward through the woods, several hundred feet back from the road, many shrubs and small trees of *Persea pubescens*, *Magnolia virginiana*, *Myrica*, etc., grow under the taller pines. Here on October 18, 1936, Dr. Robert R. Tatnall, who accompanied Mr. Jones, found a swallowtail caterpillar on a *Persea* leaf. The caterpillar, taken home by Mr. Jones, pupated, and from the pupa a fine *palamedes* emerged on May 4, 1937. On June 1, Mr. Jones saw *palamedes* on the wing here, and on October 3 he found the larvae common on the *Persea* trees, resting conspicuously on the upper surface of the leaves. *Nansemond Co.*: Whaleyville, Sept. 24, 1937. *King William Co.*: Duane, July 19, 1937. *Fauquier Co.*: New Baltimore, Aug. 7, 1937.

*District of Columbia*: Washington, July 31, 1937 (W. H. Wagner). This individual and the one from New Baltimore were presumably strays.

*Epargyreus clarus* (Cramer).

In late September and early October we found fresh individuals of this species common in and about the Dismal Swamp—more common than we have ever found them earlier in the season in this region. Here apparently the species has three complete, or practically complete broods. In the western portion of Virginia, where it is very abundant, there is only one full brood and a partial second, with occasional rare individuals late in the season representing a third brood. Half or more of the pupae from larvae from the eggs laid by the first brood, and normally all of the progeny of the second brood, hibernate.

*Erynnis baptisiae* (Forbes).

*Giles Co.*: Mountain Lake, July, 1936 (L. L. Woodruff). *Alleghany Co.*: Clifton Forge, July 19, 26, Aug. 16, 19, 1936 (C. C. Walton). *Rockbridge Co.*: Goshen Pass, Aug. 10, 1937. *Augusta Co.*: Mountain Lake (Shenandoah Acres), July 5, Aug. 8, 1937 (kindly identified for us by Dr. Forbes). *Rockingham Co.*: Swift Run Gap, Aug. 7, 1937. *Madison Co.*: Big Meadows, Aug. 16, 1937. *Arlington Co.*: July 9, 1908 (Ernest Shoemaker). *Caroline Co.*: Corbin, July 19, 1937. *King William Co.*: Aylett, July 18, 1937. *Southampton Co.*: Courtland, Aug. 25, 1936 (C. M. Williams).

*Maryland*: Cabin John, July 29, 1928.

*District of Columbia*: Washington (Henry F. Schönborn).

The specimens from Arlington Co., Va., Cabin John, Md., and Washington were recorded under the name of *persius* in "The Butterflies of the District of Columbia and Vicinity."

*Hesperia attalus* (W. H. Edwards).

*Roanoke Co.*: Salem (Carl W. Gottschalk).

*Polites mystic* (Scudder).

*Montgomery Co.*: Blacksburg, near the old Preston graveyard, 22 specimens, 1899 (Ellison A. Smyth, Jr.). *Roanoke Co.*: Salem (Carl W. Gottschalk).

*Polites manataaqua* (Harris).

*District of Columbia*: Washington; a gynandromorph with the left side male and the right side female, Aug. 12, 1935 (W. H. Wagner).

*Atrytone bimacula* (Grote and Robinson).

*Augusta Co.*: Mountain Lake (Shenandoah Acres), July 5, 1937, one female.

*Lerodea eufala* (W. H. Edwards).

*Princess Anne Co.*: Virginia Beach, Sept. 30, 1937. *Nansemond Co.*: Brinkley, Sept. 26, 1937. South of Whaleyville on the North Carolina line, Sept. 24, 1937. Suffolk, Sept. 26, 1937. Chuckatuck, Oct. 1, 1937. *Nelson Co.*: Lovington, Aug. 12, 1937.

*Calpododes ethlius* (Cramer).

*Princess Anne Co.*: Kempsville, Sept. 29; Londonbridge, Sept. 29; North Landing, Sept. 29; Oceana, Sept. 29; Princess Anne, Sept. 29; Virginia Beach, Sept. 29. *Norfolk Co.*: Bowers, Sept. 29; Burrell, Sept. 29; Butts, Sept. 29; Deep Creek, Sept. 29; Great Bridge, Sept. 29; Hickory, Sept. 29; Norfolk, Sept. 30; Portsmouth, Sept. 30; South Norfolk, Sept. 30. *Nansemond Co.*: Chuckatuck, Sept. 27; Drivers, Sept. 30; Reids Ferry, Sept. 27; Suffolk, Sept. 24; Whaleyville, Sept. 24. *Isle of Wight Co.*: Battery Park, Oct. 1; Carrsville, Sept. 24; Isle of Wight Court House, Sept. 27; Rescue, Oct. 1; Rushmere, Sept. 27; Smithfield, Sept. 27; Walters, Sept. 24; Windsor, Sept. 27. *Southampton Co.*: Boykins, Sept. 24; Franklin, Sept. 24; Ivor, Sept. 27. *Sussex Co.*: California, Sept. 27; Gray, Sept. 24; Wakefield, Sept. 27. *Surry Co.*: Dendron, Oct. 1; Elberon, Oct. 1. *Warwick Co.*: Denbigh, Oct. 3; Hilton Village, Oct. 3; Lee Hall, Oct. 3. *James City Co.*: Lightfoot, Oct. 3; Norge, Oct. 3; Toano, Oct. 3; Williamsburg, Oct. 3. *York Co.*: Grove, Oct. 3. *New Kent Co.*: Barhamsville, Oct. 3. *King William Co.*: West Point, Oct. 3. *Gloucester Co.*: Glenns, Oct. 3. *Westmoreland Co.*: Montross, Oct. 3. *Spotsylvania Co.*: Fredericksburg, Oct. 3. *Arlington Co.*: Alexandria, and between Alexandria and Washington, Sept. 12.

*District of Columbia*: Washington, Department of Agriculture grounds, Sept. 14, 20.

The preceding records, all based upon larvae, are for 1937. Records for adults are: Virginia Beach, Aug. 21, 1936 (W. H. Wagner). Department of Agriculture Grounds, Washington, Sept. 20, 1937 (two).